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(54) **MICROFLUIDIC DELIVERY SYSTEM AND CARTRIDGE HAVING AN OUTER COVER**

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See application file for complete search history.

(71) Applicant: **The Procter & Gamble Company**,
Cincinnati, OH (US)

(72) Inventors: **Dana Paul Gruenbacher**, Fairfield, OH (US); **Martin Diehl**, Bad Vilbel (DE); **Jannik Scheele**, Frankfurt (DE); **Joseph Edward Scheffelin**, San Diego, CA (US); **Uwe Schober**, Glashuetten-Schlossborn (DE)

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(73) Assignee: **The Procter & Gamble Company**,
Cincinnati, OH (US)

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Primary Examiner — Robert A Hopkins

(74) *Attorney, Agent, or Firm* — Abbey A. Lopez

(57) **ABSTRACT**

A cartridge for a microfluidic delivery system is defined by a longitudinal axis. The cartridge includes a reservoir for containing a fluid composition. The cartridge also includes a nozzle operatively connected with the reservoir. The nozzle is in fluid communication with the reservoir for releasing the fluid composition. The cartridge includes an outer cover operatively connected with the reservoir. The outer cover comprises an orifice that is adjacent to the nozzle. An air flow path is formed by a gap between the reservoir and the outer cover.

20 Claims, 22 Drawing Sheets

